

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Hirokazu KUBOTA, et al.

Divisional of Appln. No.: 09/529,131

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: January 30, 2001

For: PYRAZOLE DERIVATIVE

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

**IN THE SPECIFICATION:**

**Amend the specification by inserting before the first line the sentence:**

This is a divisional application of Application No. 09/529,131, filed April 7, 2000, the disclosure of which is incorporated herein by reference.

**On page 1, please delete the paragraph encompassing lines 4-9 and insert the following new paragraph:**

This invention relates to a medicament, particularly a pyrazole derivative having an action to inhibit calcium release-activated calcium channel, and a pharmaceutical composition containing the same as an active ingredient, particularly a calcium release-activated calcium channel inhibitor.

**On page 4, please delete the paragraph encompassing lines 10-16 and insert the following new paragraph:**

WO 95/18097 discloses an anthranilic acid derivative represented by the following formula, which inhibits a cyclic GMP phosphodiesterase. In the formula,  $R_1$  to  $R_4$  represent H, a halogen atom, ..., pyrazolyl which may be substituted, ...;  $n$  is 0 to 6,  $W$  represents N or CH,  $Y$  represents O or S, ... (see said published patent application for details).

**On page 4, please delete the partial paragraph encompassing lines 17-20 and insert the following new partial paragraph:**

An unexamined published Japanese patent application 9-59236 discloses an  $R^1$ ,  $R^2$ -di-substituted benzamide derivative represented by the following formula, which is useful for the prevention and treatment of rheumatic,

**On page 8, please delete the paragraph encompassing lines 19-29 and insert the following new paragraph:**

The invention also relates to a pharmaceutical composition, particularly a pharmaceutical composition for use in the inhibition of calcium release activated calcium channel, which comprises a pyrazole derivative represented by the following general formula (I') or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier. Preferably, it relates to an IL-2 production inhibitor, a preventive or therapeutic agent for allergic, inflammatory or autoimmune diseases and a preventive or therapeutic agent for bronchial asthma or rheumatoid arthritis.

**On page 20, please delete the partial paragraph encompassing lines 1-11 and insert the following new partial paragraph:**

carboxylic acid or a reactive derivative thereof, and examples of the reactive derivative include acid halides such as acid chlorides, acid bromides and the like; acid azides; active esters which can be prepared using methanol, ethanol, benzyl alcohol, phenol which may be substituted, 1-hydroxybenzotriazole, N-hydroxysuccinimide and the like; symmetric acid anhydrides; and mixed acid anhydrides with alkylcarboxylic acid, p-toluenesulfonic acid and the like. These reactive derivatives are commercially available or can be produced by the usual procedures.

**On page 28, please delete the paragraph encompassing lines 3-8 and insert the following new paragraph:**

In particular, the compound of the present invention which is possessed of CRACC selective inhibitory activity over VOCC is useful, because it can cause CRACC inhibition without VOCC inhibition-induced undesirable reactions in central nervous system and cardiovascular system and the like.

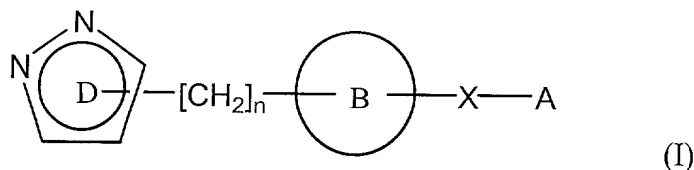
**On page 32, please delete the paragraph encompassing lines 6-13 and insert the following new paragraph:**

In four-week-old male BN rats (Charles River, Japan), inhibitory effect on antigen-induced airway eosinophilia was tested in almost the same manner as the method reported by W. Elwood *et al.* in *Inflamm. Res.*, 44: 83-86 (1995). In this connection, the drug was administered 30 minutes before the antigen exposure in the case of intravenous injection or 1 hour before and 3 hours after the antigen exposure in the case of oral administration.

**IN THE CLAIMS:**

**Please enter the following amended claims:**

1. (Amended) A pyrazole derivative represented by the following general formula  
(I) or a pharmaceutically acceptable salt thereof



wherein each symbol has the following meaning,

D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of  
-Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk,  
-cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic,  
divalent heteroaromatic ring group which may be substituted with Alk,

X:  $-NR^1-CR^2R^3-$ ,  $-CR^2R^3-NR^1-$ ,  $-NR^1-SO_2-$ ,  $-SO_2-NR^1-$  or  $-CR^4=CR^5-$ ,

$R^1$ : -H, -OH, -Alk, -O-Alk or -CO-Alk,

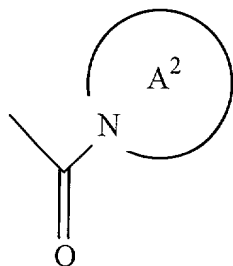
$R^2$  and  $R^3$ : the same or different from each other and each represents -H or -Alk, or  $R^2$   
and  $R^3$  together form =O or =S,

$R^4$  and  $R^5$ : the same or different from each other and each represents -H, -Hal,  
-halogeno-lower alkyl or -Alk, and

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A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may have one or more substituents; or Alk which may have one or more substituents, or A and X may together form a group represented by a formula



wherein A<sup>2</sup> is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents, with the proviso that

(1) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and X is NHCO, A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl,

(2) when D is 1-methyl-5-trifluoromethyl-1H-pyrazol-3-yl, n is 0, B is thiophene-2,5-diyl and X is CONH, A is a group other than 4-chlorophenyl,

(3) when D is 1-methyl-3-trifluoromethyl-1H-pyrazol-5-yl, n is 0, B is thiophene-2,5-diyl and X is CONH, A is a group other than benzyl,

(4) when D is 4-ethoxycarbonyl-5-trifluoromethyl-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and Y is NHCO, A is a group other than trichlorovinyl,

(5) when D is 1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and Y is NHCO, A is a group other than 2-ethoxyvinyl, and

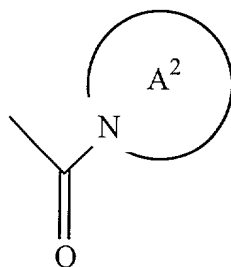
(6) when n is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group.

2. (Amended) The pyrazole derivative or pharmaceutically acceptable salt thereof according to claim 1, wherein A is phenyl which may have one or more substituents of F group; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents of F group; cycloalkyl which may have one or more substituents of F group; a nitrogen-containing, saturated ring group which may have one or more substituents of F group; lower alkenyl which may have one or more substituents of G group; lower alkynyl which may have one or more substituents of G group; or Alk which may have one or more substituents of G group,

wherein the F group is a group consisting of -Alk, -lower alkenyl, -lower alkynyl, -Hal, -NH<sub>2</sub>, -NH(Alk), -N(Alk)<sub>2</sub>, -NO<sub>2</sub>, -CN, -OH, -O-Alk, -O-CO-Alk, -SH, -S-Alk, -COOH, -COO-Alk, -CO-Alk, -CHO, -CONH<sub>2</sub>, -CONH(Alk), -CON(Alk)<sub>2</sub>, -SO-Alk, SO<sub>2</sub>Alk, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>NH-(Alk), -SO<sub>2</sub>N(Alk)<sub>2</sub>, -aryl, -cycloalkyl, -O-Alk-O-, -halogeno-lower alkyl, -Alk-NH<sub>2</sub>, -Alk-NH(Alk), -Alk-N(Alk)<sub>2</sub>, -Alk-OH, -Alk-O-Alk, -Alk-SH, -Alk-S-Alk, -Alk-COOH, -Alk-COO-Alk, -Alk-CO-Alk, -Alk-CHO, -Alk-CONH<sub>2</sub>, -Alk-CONH(Alk), -Alk-CON(Alk)<sub>2</sub>, -Alk-SO-Alk, -Alk-SO<sub>2</sub>-Alk, -Alk-SO<sub>2</sub>NH<sub>2</sub>, -Alk-SO<sub>2</sub>NH(Alk), -Alk-SO<sub>2</sub>N(Alk)<sub>2</sub>, -Alk-aryl and -Alk-cycloalkyl,

and the G group is a group consisting of -Hal, -NH<sub>2</sub>, -NH(Alk), -N(Alk)<sub>2</sub>, -NO<sub>2</sub>, -CN, -OH, -O-Alk, -O-CO-Alk, -SH, -S-Alk, -COOH, -COO-Alk, -CO-Alk, -CHO, -CONH<sub>2</sub>, -CONH(Alk), -CON(Alk)<sub>2</sub>, -SO-Alk, -SO<sub>2</sub>-Alk, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>NH-(Alk), -SO<sub>2</sub>N(Alk)<sub>2</sub>, aryl which may have one or more substituents of F group; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents of F group; cycloalkyl which may have one or more substituents of F group and a nitrogen-containing, saturated ring group which may have one or more substituents of F group,

or A and X may together form a group represented by a formula



wherein A<sup>2</sup> is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, 1-piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents of F group.

3. (Amended) The pyrazole derivative or pharmaceutically acceptable salt thereof according to claim 2, wherein

B is phenylene; piperidine-1,4-diyl; or a monocyclic, divalent heteroaromatic ring group selected from the class consisting of thiophene, furan, pyrrole, imidazole, pyrazole, thiazole,

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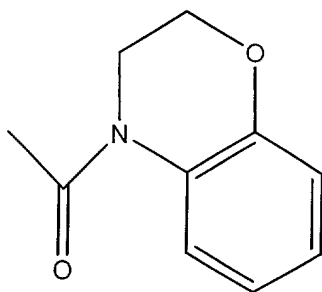
isothiazole, oxazole, isoxazole, thiadiazole, pyridine, pyrazine, pyridazine and pyrimidine, which may be substituted with Alk,

X is  $\text{-NH-CO-}$ ,  $\text{-NH-CH}_2\text{-}$ ,  $\text{-N(OH)-CO-}$ ,  $\text{-N(Alk)-CO-}$ ,  $\text{-CO-NH-}$ ,  $\text{-CH}_2\text{-NH-}$ ,  $\text{-CO-N(OH)-}$ ,  $\text{-CO-N(Alk)-}$ ,  $\text{-SO}_2\text{NH-}$ ,  $\text{-NHSO}_2\text{-}$  or  $\text{-CH=C(Hal)-}$ ,

A is aryl which may have one or more substituents of group F; mono-, di- or tri-cyclic fused heteroaryl selected from the group consisting of thienyl, furanyl, pyrrolyl, imidazolyl, pyrazolyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, tetrazolyl, triazolyl, thiadiazolyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl, indolyl, isoindolyl, isoquinolyl, quinolyl, quinoxanyl, phthalazinyl, imidazopyridyl, quinazolinyl and cinnolynyl, which may have one or more substituents of group F; cycloalkyl; a nitrogen-containing, saturated ring selected from the group consisting of pyrrolidinyl, imidazolidinyl, pyrazolidinyl, piperidyl, piperazinyl and morpholynyl, which may be substituted with one or more Alk; lower alkynyl which may be substituted with one or more Hal; lower alkenyl which may be substituted with one or more Hal; or Alk which may be substituted with one or more Hal, and the F group is a group consisting of  $\text{-Alk}$ ,  $\text{-lower alkenyl}$ ,  $\text{-lower alkynyl}$ ,  $\text{-Hal}$ ,  $\text{-NH}_2$ ,  $\text{-NH(Alk)}$ ,  $\text{-N(Alk)}_2$ ,  $\text{-NO}_2$ ,  $\text{-CN}$ ,  $\text{-OH}$ ,  $\text{-O-Alk}$ ,  $\text{-O-CO-Alk}$ ,  $\text{-SH}$ ,  $\text{-S-Alk}$ ,  $\text{-COOH}$ ,  $\text{-COO-Alk}$ ,  $\text{-CO-Alk}$ ,  $\text{-CHO}$ ,  $\text{-CONH}_2$ ,  $\text{-CONH(Alk)}$ ,  $\text{-CON(Alk)}_2\text{-}$ ,  $\text{-SO-Alk}$ ,  $\text{-SO}_2\text{-Alk}$ ,  $\text{-SO}_2\text{NH}_2$ ,  $\text{-SO}_2\text{NH-(Alk)}$  and  $\text{-SO}_2\text{N(Alk)}_2$ ,

or A and X may together form a group represented by a formula





4. (Amended) The pyrazole derivative or pharmaceutically acceptable salt thereof according to claim 3, wherein

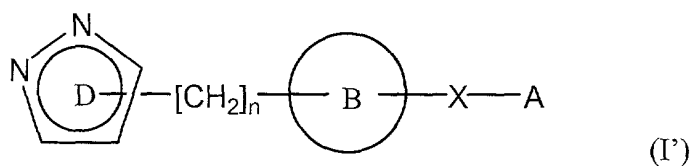
n is 0, D is pyrazolyl which may have 1 to 3 substituents selected from -Alk, -halogeno-lower alkyl, -COOH and -COO-Alk,

B is phenylene or a monocyclic, divalent heteroaromatic ring group selected from the class consisting of thiophene, furan, thiazole, pyridine and pyrimidine, which may be substituted with Alk,

X is -NH-CO-, -N(OH)-CO-, -CO-NH-, -CH<sub>2</sub>-NH- or -CO-N(Alk)-, and

A is phenyl which may have one or more substituents selected from the group consisting of -Alk, -Hal, -NH<sub>2</sub>, -N(Alk)<sub>2</sub>, -NO<sub>2</sub>, -CN, -OH, -O-Alk and -COO-Alk; mono-, di- or tri-cyclic fused heteroaryl selected from the group consisting of thienyl, pyrrolyl, imidazolyl, thiazolyl, oxazolyl, tetrazolyl, triazolyl, thiadiazolyl, pyridyl, pyrazinyl and isoquinolyl, which may be substituted with Alk; cycloalkyl; lower alkenyl which may be substituted with one or more Hal; or Alk.

10. (Amended) A pharmaceutical composition which comprises a pyrazole derivative represented by the following general formula (I') or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier



wherein each symbol has the following meaning,

D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of -Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk, -cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

X:  $-NR^1-CR^2R^3-$ ,  $-CR^2R^3-NR^1-$ ,  $-NR^1-SO_2-$ ,  $-SO_2-NR^1-$  or  $-CR^4=CR^5-$ ,

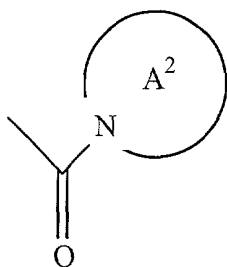
$R^1$ : -H, -OH, -Alk, -O-Alk or -CO-Alk,

$R^2$  and  $R^3$ : the same or different from each other and each represents -H or -Alk, or  $R^2$  and  $R^3$  together form =O or =S,

$R^4$  and  $R^5$ : the same or different from each other and each represents -H, -Hal, -halogeno-lower alkyl or -Alk, and

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A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may have one or more substituents; or Alk which may have one or more substituents, or A and X may together form a group represented by a formula



wherein A<sup>2</sup> is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents, with the proviso that

(1) when n is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group, and

(2) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and X is NHCO, A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl.

11. (Amended) The pharmaceutical composition according to claim 10, which is a calcium release-activated calcium channel inhibitor.

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13. (Amended) The pharmaceutical composition according to claim 12, which is a preventive or therapeutic agent for an allergic, inflammatory or autoimmune disease.

14. (Amended) The pharmaceutical composition according to claim 13, which is a preventive or therapeutic agent for bronchial asthma.

15. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein D is pyrazolyl substituted with at least one trifluoromethyl group.

16. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group.

17. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein X is -NH-CO- or -CO-NH-.

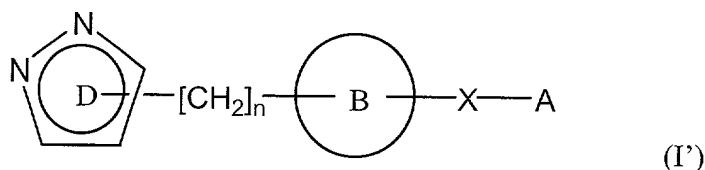
18. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein D is 1-methyl-3-trifluoromethyl-1H-pyrazol-5-yl and A is phenyl which may be substituted with Hal.

19. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl and A is monocyclic heteroaryl selected from the group consisting of thiazolyl, thiadiazolyl, thienyl and pyridyl, which may be substituted with Alk.

**Please add the following new claims:**

20. The pharmaceutical composition according to claim 13, which is a preventive or therapeutic agent for rheumatoid arthritis.

21. A method for treating a disease associated with calcium release-activated calcium channels, which comprises administering a pharmaceutical composition comprising a pyrazole derivative represented by the following general formula (I')



wherein each symbol has the following meaning,

D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of -Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk, -cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

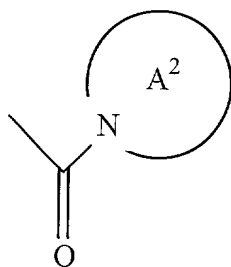
X:  $-\text{NR}^1-\text{CR}^2\text{R}^3-$ ,  $-\text{CR}^2\text{R}^3-\text{NR}^1-$ ,  $-\text{NR}^1-\text{SO}_2-$ ,  $-\text{SO}_2-\text{NR}^1-$  or  $-\text{CR}^4=\text{CR}^5-$ ,

$\text{R}^1$ : -H, -OH, -Alk, -O-Alk or -CO-Alk,

$\text{R}^2$  and  $\text{R}^3$ : the same or different from each other and each represents -H or -Alk, or  $\text{R}^2$  and  $\text{R}^3$  together form =O or =S,

$R^4$  and  $R^5$ : the same or different from each other and each represents  $-H$ ,  $-Hal$ ,  $-halogeno-lower\ alkyl$  or  $-Alk$ , and

A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may have one or more substituents; or  $Alk$  which may have one or more substituents, or A and X may together form a group represented by a formula



wherein  $A^2$  is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents, with the proviso that

(1) when  $n$  is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group, and

(2) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl,  $n$  is 0, B is 1,4-phenylene and X is  $NHCO$ , A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl,

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or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier, in an effective amount for treating said disease in a patient suffering from or susceptible to said disease.

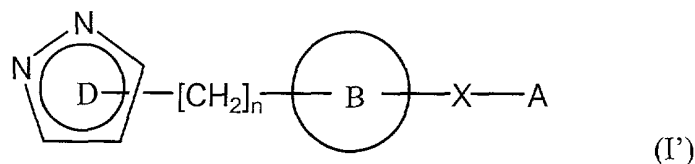
22. The method according to claim 21, wherein said disease associated with calcium release-activated calcium channels is a disease associated with IL-2 production.

23. The method according to claim 21, wherein said disease associated with calcium release-activated calcium channels is an allergic, inflammatory or autoimmune disease.

24. The method according to claim 21, wherein said disease associated with calcium release-activated calcium channels is bronchial asthma.

25. The method according to claim 21, wherein said disease associated with calcium release-activated calcium channels is rheumatoid arthritis.

26. A method for treating a disease associated with IL-2 production, which comprises administering a pharmaceutical composition comprising a pyrazole derivative represented by the following general formula (I')



wherein each symbol has the following meaning,

D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of -Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk, -cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

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n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

X:  $-\text{NR}^1-\text{CR}^2\text{R}^3-$ ,  $-\text{CR}^2\text{R}^3-\text{NR}^1-$ ,  $-\text{NR}^1-\text{SO}_2-$ ,  $-\text{SO}_2-\text{NR}^1-$  or  $-\text{CR}^4=\text{CR}^5-$ ,

$\text{R}^1$ :  $-\text{H}$ ,  $-\text{OH}$ ,  $-\text{Alk}$ ,  $-\text{O}-\text{Alk}$  or  $-\text{CO}-\text{Alk}$ ,

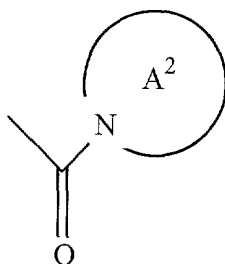
$\text{R}^2$  and  $\text{R}^3$ : the same or different from each other and each represents  $-\text{H}$  or  $-\text{Alk}$ , or  $\text{R}^2$

and  $\text{R}^3$  together form  $=\text{O}$  or  $=\text{S}$ ,

$\text{R}^4$  and  $\text{R}^5$ : the same or different from each other and each represents  $-\text{H}$ ,  $-\text{Hal}$ ,

$-\text{halogeno-lower alkyl}$  or  $-\text{Alk}$ , and

A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may have one or more substituents; or Alk which may have one or more substituents, or A and X may together form a group represented by a formula





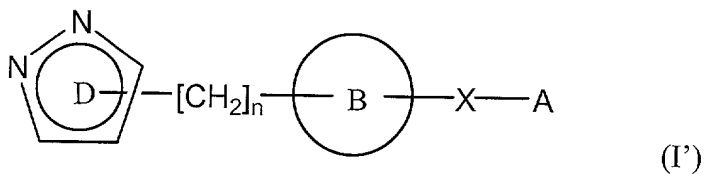
wherein A<sup>2</sup> is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents, with the proviso that

(1) when n is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group, and

(2) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and X is NHCO, A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl,

or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier, in an effective amount for treating said disease in a patient suffering from or susceptible to said disease.

27. A method for treating an allergic, inflammatory or autoimmune disease, which comprises administering a pharmaceutical composition comprising a pyrazole derivative represented by the following general formula (I')



wherein each symbol has the following meaning,

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D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of -Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk, -cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

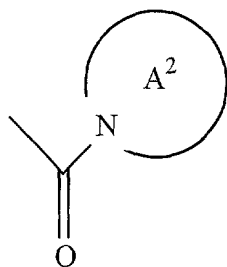
X:  $-NR^1-CR^2R^3-$ ,  $-CR^2R^3-NR^1-$ ,  $-NR^1-SO_2-$ ,  $-SO_2-NR^1-$  or  $-CR^4=CR^5-$ ,

$R^1$ : -H, -OH, -Alk, -O-Alk or -CO-Alk,

$R^2$  and  $R^3$ : the same or different from each other and each represents -H or -Alk, or  $R^2$  and  $R^3$  together form =O or =S,

$R^4$  and  $R^5$ : the same or different from each other and each represents -H, -Hal, -halogeno-lower alkyl or -Alk, and

A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may have one or more substituents; or Alk which may have one or more substituents, or A and X may together form a group represented by a formula



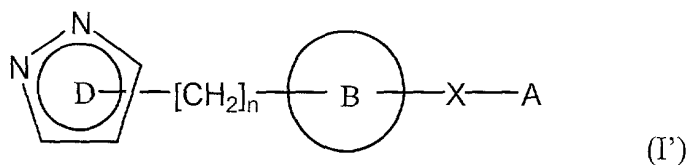
wherein A<sup>2</sup> is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents, with the proviso that

(1) when n is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group, and

(2) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and X is NHCO, A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl,

or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier, in an effective amount for treating said disease in a patient suffering from or susceptible to said disease.

28. A method for treating bronchial asthma, which comprises administering a pharmaceutical composition comprising a pyrazole derivative represented by the following general formula (I')



wherein each symbol has the following meaning,

D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of -Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk, -cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

X: -NR<sup>1</sup>-CR<sup>2</sup>R<sup>3</sup>-, -CR<sup>2</sup>R<sup>3</sup>-NR<sup>1</sup>-, -NR<sup>1</sup>-SO<sub>2</sub>-, -SO<sub>2</sub>-NR<sup>1</sup>- or -CR<sup>4</sup>=CR<sup>5</sup>-,

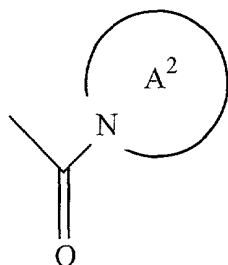
R<sup>1</sup>: -H, -OH, -Alk, -O-Alk or -CO-Alk,

R<sup>2</sup> and R<sup>3</sup>: the same or different from each other and each represents -H or -Alk, or R<sup>2</sup> and R<sup>3</sup> together form =O or =S,

R<sup>4</sup> and R<sup>5</sup>: the same or different from each other and each represents -H, -Hal, -halogeno-lower alkyl or -Alk, and

A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may

have one or more substituents; or Alk which may have one or more substituents, or A and X may together form a group represented by a formula



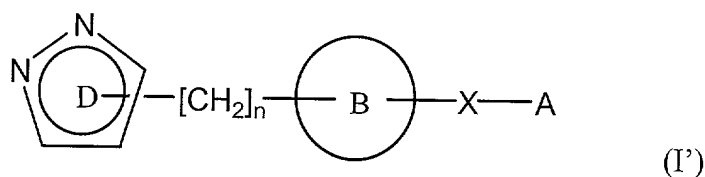
wherein A<sup>2</sup> is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents, with the proviso that

(1) when n is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group, and

(2) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and X is NHCO, A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl,

or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier, in an effective amount for treating said disease in a patient suffering from or susceptible to said disease.

29. A method for treating rheumatoid arthritis, which comprises administering a pharmaceutical composition comprising a pyrazole derivative represented by the following general formula (I')



wherein each symbol has the following meaning,

D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of -Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk, -cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

X: -NR<sup>1</sup>-CR<sup>2</sup>R<sup>3</sup>-, -CR<sup>2</sup>R<sup>3</sup>-NR<sup>1</sup>-, -NR<sup>1</sup>-SO<sub>2</sub>-, -SO<sub>2</sub>-NR<sup>1</sup>- or -CR<sup>4</sup>=CR<sup>5</sup>-,

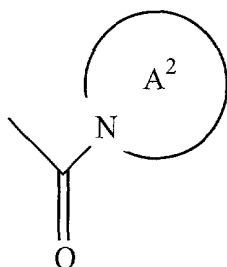
R<sup>1</sup>: -H, -OH, -Alk, -O-Alk or -CO-Alk,

R<sup>2</sup> and R<sup>3</sup>: the same or different from each other and each represents -H or -Alk, or R<sup>2</sup> and R<sup>3</sup> together form =O or =S,

R<sup>4</sup> and R<sup>5</sup>: the same or different from each other and each represents -H, -Hal, -halogeno-lower alkyl or -Alk, and

A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may

have one or more substituents; or Alk which may have one or more substituents, or A and X may together form a group represented by a formula



wherein  $A^2$  is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents, with the proviso that

(1) when n is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group, and

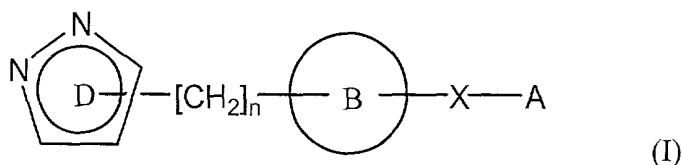
(2) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and X is NHCO, A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl,

or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier, in an effective amount for treating said disease in a patient suffering from or susceptible to said disease.

**IN THE ABSTRACT:**

**Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure:**

The present invention is directed to drugs, in particular, pyrazole derivatives represented by the following general formula (I)



which have a calcium release-activated calcium channel inhibitory effect and medicinal compositions, in particular, calcium release-activated calcium channel inhibitors containing the above compounds as the active ingredient, wherein each substituent is defined in the specification.

The present invention also relates to a pharmaceutical composition containing an effective amount of the compound of formula (I) and a pharmaceutically effective carrier.

The present invention further relates to methods of treatment of diseases associated with calcium release-activated calcium channels, diseases associated with IL-2 production, and methods of treatment of allergic, inflammatory or auto-immune diseases.



REMARKS

The amendments to the specification and abstract, replacing the term "dependent" with "activated" are made for the sake of clarity. As can be seen in the paragraph entitled "Technical Field," in some places the words "dependent" and "activated" are used interchangeably.

The additional amendments are made to correct obvious errors or to correct mistakes made in the translation of the Japanese language PCT application.

If the Office desires a complete new translation, please advise the undersigned accordingly.

The claims have been amended to correct grammatical errors, to remove unnecessary parentheses, and to narrow the scope of certain claims.

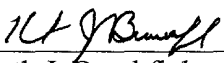
New claim 20 recites the portion of subject matter that was deleted from claim 14.

New claims 21-29 are method claims, reciting the use of the compounds set forth in the claims as filed, in the treatment of disease.

Accordingly, no new matter has been added. Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,

SUGHRUE, MION, ZINN,  
MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Washington, D.C. 20037-3213  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

  
\_\_\_\_\_  
Kenneth J. Burchfiel  
Registration No. 31,333

Date: February 2, 2001

**APPENDIX**

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE SPECIFICATION:**

**The specification is changed as follows:**

**Page 1, paragraph encompassing lines 4-9:**

This invention relates to a medicament, particularly a pyrazole derivative having an action to inhibit calcium release-activated [dependent] calcium channel, and a pharmaceutical composition containing the same as an active ingredient, particularly a calcium release-activated calcium channel inhibitor.

**Page 4, paragraph encompassing lines 10-16:**

WO 95/18097 discloses an anthranilic acid derivative represented by the following formula, which inhibits a cyclic GMP phosphodiesterase. In the formula [(I)], R<sub>1</sub> to R<sub>4</sub> represent H, a halogen atom, ..., pyrazolyl which may be substituted, ...; n is 0 to 6, W represents N or CH, Y represents O or S, ... (see said published patent application for details).

**Page 4, partial paragraph encompassing lines 17-20:**

An unexamined published Japanese patent application 9-59236 discloses an R<sup>1</sup>, R<sup>2</sup>-disubstituted benzamide derivative represented by the following formula [(1)], which is useful for the prevention and treatment of rheumatic,

**Page 8, paragraph encompassing lines 19-29:**

The invention also relates to a pharmaceutical composition, particularly a pharmaceutical composition for use in the inhibition of calcium release activated [-dependent] calcium channel,

which comprises a pyrazole derivative represented by the following general formula (I') or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier. Preferably, it relates to an IL-2 production inhibitor, a preventive or therapeutic agent for allergic, inflammatory or autoimmune diseases and a preventive or therapeutic agent for bronchial asthma or rheumatoid arthritis.

**Page 20, partial paragraph encompassing lines 1-11:**

carboxylic acid or a reactive derivative thereof, and examples of the reactive derivative include acid halides such as acid chlorides, acid bromides and the like; acid azides; active esters which can be prepared using methanol, ethanol, benzyl alcohol, phenol which may be substituted, 1-hydroxybenzotriazole, N-hydroxysuccinimide and the like; symmetric acid anhydrides; and mixed acid anhydrides with [ethoxycarbonyl chloride, isobutylcarbonyl chloride,] alkylcarboxylic acid, p-toluenesulfonic acid and the like. These reactive derivatives are commercially available or can be produced by the usual procedures.

**Page 28, paragraph encompassing lines 3-8:**

In particular, the compound of the present invention which is possessed of CRACC selective inhibitory activity over VOCC is useful, because it can cause CRACC inhibition without VOCC inhibition- [activation] induced undesirable reactions in central nervous system and cardiovascular system and the like.

**Page 32, paragraph encompassing lines 6-13:**

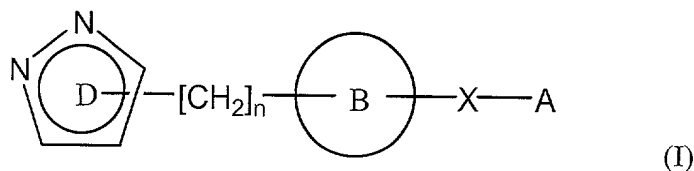
In four-week-old male BN rats (Charles River, Japan), inhibitory effect on antigen-induced airway eosinophilia was tested in almost the same manner as the method reported by W.

Elwood *et al.* in *Inflamm. Res.*, 44: 83-86 (1995). In this connection, the drug was administered 30 minutes before the antigen exposure in the case of intravenous injection or 1 hour before and 3 hours after the antigen exposure in the case of oral administration.

**IN THE CLAIMS:**

**The claims are amended as follows:**

1. A pyrazole derivative represented by the following general formula (I) or a pharmaceutically acceptable salt thereof



wherein [(in the formula,] each symbol has the following meaning, [;]

D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of -Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk, -cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

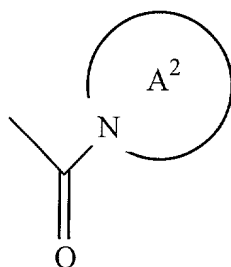
X: -NR<sup>1</sup>-CR<sup>2</sup>R<sup>3</sup>-, -CR<sup>2</sup>R<sup>3</sup>-NR<sup>1</sup>-, -NR<sup>1</sup>-SO<sub>2</sub>-, -SO<sub>2</sub>-NR<sup>1</sup>- or -CR<sup>4</sup>=CR<sup>5</sup>-,

R<sup>1</sup>: -H, -OH, -Alk, -O-Alk or -CO-Alk,

$R^2$  and  $R^3$ : the same or different from each other and each represents  $-H$  or  $-Alk$ , or  $R^2$  and  $R^3$  together form  $=O$  or  $=S$ ,

$R^4$  and  $R^5$ : the same or different from each other and each represents  $-H$ ,  $-Hal$ ,  $-halogeno-lower\ alkyl$  or  $-Alk$ , and

A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may have one or more substituents; or  $Alk$  which may have one or more substituents, or A and X may together form a group represented by a formula



[()wherein  $A^2$  is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents()], with the proviso that

(1) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and X is  $NHCO$ , A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl,

(2) when D is 1-methyl-5-trifluoromethyl-1H-pyrazol-3-yl, n is 0, B is thiophene-2,5-diyl and X is CONH, A is a group other than 4-chlorophenyl,

(3) when D is 1-methyl-3-trifluoromethyl-1H-pyrazol-5-yl, n is 0, B is thiophene-2,5-diyl and X is CONH, A is a group other than benzyl,

(4) when D is 4-ethoxycarbonyl-5-trifluoromethyl-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and Y is NHCO, A is a group other than trichlorovinyl,

(5) when D is 1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and Y is NHCO, A is a group other than 2-ethoxyvinyl, and

(6) when n is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group[]].

2. The pyrazole derivative or pharmaceutically acceptable salt thereof according to claim 1, wherein A is phenyl which may have one or more substituents of F group; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents of F group; cycloalkyl which may have one or more substituents of F group; a nitrogen-containing, saturated ring group which may have one or more substituents of F group; lower alkenyl which may have one or more substituents of G group; lower alkynyl which may have one or more substituents of G group; or Alk which may have one or more substituents of G group,

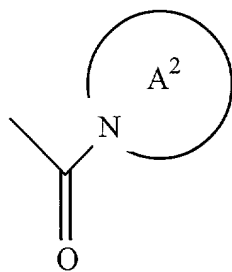
wherein the F group is a group consisting of -Alk, -lower alkenyl, -lower alkynyl, -Hal, -NH<sub>2</sub>, -NH(Alk), -N(Alk)<sub>2</sub>, -NO<sub>2</sub>, -CN, -OH, -O-Alk, -O-CO-Alk, -SH, -S-Alk, -COOH, -COO-Alk, -CO-Alk, -CHO, -CONH<sub>2</sub>, -CONH(Alk), -CON(Alk)<sub>2</sub>, -SO-Alk, SO<sub>2</sub>Alk,

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$-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{NH}(\text{Alk})$ ,  $-\text{SO}_2\text{N}(\text{Alk})_2$ ,  $-\text{aryl}$ ,  $-\text{cycloalkyl}$ ,  $-\text{O-Alk-O-}$ ,  $-\text{halogeno-lower alkyl}$ ,  $-\text{Alk-NH}_2$ ,  $-\text{Alk-NH}(\text{Alk})$ ,  $-\text{Alk-N}(\text{Alk})_2$ ,  $-\text{Alk-OH}$ ,  $-\text{Alk-O-Alk}$ ,  $-\text{Alk-SH}$ ,  $-\text{Alk-S-Alk}$ ,  $-\text{Alk-COOH}$ ,  $-\text{Alk-COO-Alk}$ ,  $-\text{Alk-CO-Alk}$ ,  $-\text{Alk-CHO}$ ,  $-\text{Alk-CONH}_2$ ,  $-\text{Alk-CONH}(\text{Alk})$ ,  $-\text{Alk-CON}(\text{Alk})_2$ ,  $-\text{Alk-SO-Alk}$ ,  $-\text{Alk-SO}_2\text{-Alk}$ ,  $-\text{Alk-SO}_2\text{NH}_2$ ,  $-\text{Alk-SO}_2\text{NH}(\text{Alk})$ ,  $-\text{Alk-SO}_2\text{N}(\text{Alk})_2$ ,  $-\text{Alk-aryl}$  and  $-\text{Alk-cycloalkyl}$ ,

and the G group is a group consisting of  $-\text{Hal}$ ,  $-\text{NH}_2$ ,  $-\text{NH}(\text{Alk})$ ,  $-\text{N}(\text{Alk})_2$ ,  $-\text{NO}_2$ ,  $-\text{CN}$ ,  $-\text{OH}$ ,  $-\text{O-Alk}$ ,  $-\text{O-CO-Alk}$ ,  $-\text{SH}$ ,  $-\text{S-Alk}$ ,  $-\text{COOH}$ ,  $-\text{COO-Alk}$ ,  $-\text{CO-Alk}$ ,  $-\text{CHO}$ ,  $-\text{CONH}_2$ ,  $-\text{CONH}(\text{Alk})$ ,  $-\text{CON}(\text{Alk})_2$ ,  $-\text{SO-Alk}$ ,  $-\text{SO}_2\text{-Alk}$ ,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{NH}(\text{Alk})$ ,  $-\text{SO}_2\text{N}(\text{Alk})_2$ ,  $\text{aryl}$  which may have one or more substituents of F group;  $\text{mono-}$ ,  $\text{di-}$  or  $\text{tri-}$ cyclic fused heteroaryl which may have one or more substituents of F group;  $\text{cycloalkyl}$  which may have one or more substituents of F group and a nitrogen-containing, saturated ring group which may have one or more substituents of F group,

or A and X may together form a group represented by a formula



[ ] wherein  $A^2$  is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, 1-piperazinyl, morpholino, 3,4-dihydro-2H-1,4-

benzoxazin-4-yl and indolinyl, wherein said hetero ring may have one or more substituents of F group[]].

3. The pyrazole derivative or pharmaceutically acceptable salt thereof according to claim 2, wherein

B is phenylene; piperidine-1,4-diyl; or a monocyclic, divalent heteroaromatic ring group selected from the class consisting of thiophene, furan, pyrrole, imidazole, pyrazole, thiazole, isothiazole, oxazole, isoxazole, thiadiazole, pyridine, pyrazine, pyridazine and pyrimidine, which may be substituted with Alk,

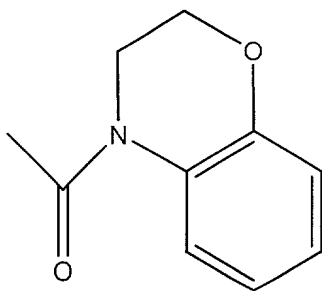
X is  $-\text{NH}-\text{CO}-$ ,  $-\text{NH}-\text{CH}_2-$ ,  $-\text{N}(\text{OH})-\text{CO}-$ ,  $-\text{N}(\text{Alk})-\text{CO}-$ ,  $-\text{CO}-\text{NH}-$ ,  $-\text{CH}_2-\text{NH}-$ ,  $-\text{CO}-\text{N}(\text{OH})-$ ,  $-\text{CO}-\text{N}(\text{Alk})-$ ,  $-\text{SO}_2\text{NH}-$ ,  $-\text{NHSO}_2-$  or  $-\text{CH}=\text{C}(\text{Hal})-$ ,

A is aryl which may have one or more substituents of group F; mono-, di- or tri-cyclic fused heteroaryl selected from the group consisting of thienyl, furanyl, pyrrolyl, imidazolyl, pyrazolyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, tetrazolyl, triazolyl, thiadiazolyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl, indolyl, isoindolyl, isoquinolyl, quinolyl, quinoxanyl, phthalazinyl, imidazopyridyl, quinazolinyl and cinnolinyl, which may have one or more substituents of group F; cycloalkyl; a nitrogen-containing, saturated ring selected from the group consisting of pyrrolidinyl, imidazolidinyl, pyrazolidinyl, piperidyl, piperazinyl and morpholinyl, which may be substituted with one or more Alk; lower alkynyl which may be substituted with one or more Hal; lower alkenyl which may be substituted with one or more Hal; or Alk which may be substituted with one or more Hal, and the F group is a group consisting of  $-\text{Alk}$ ,  $-\text{lower alkenyl}$ ,  $-\text{lower alkynyl}$ ,  $-\text{Hal}$ ,  $-\text{NH}_2$ ,  $-\text{NH}(\text{Alk})$ ,  $-\text{N}(\text{Alk})_2$ ,  $-\text{NO}_2$ ,  $-\text{CN}$ ,  $-\text{OH}$ ,  $-\text{O}-\text{Alk}$ ,



$-\text{O}-\text{CO}-\text{Alk}$ ,  $-\text{SH}$ ,  $-\text{S}-\text{Alk}$ ,  $-\text{COOH}$ ,  $-\text{COO}-\text{Alk}$ ,  $-\text{CO}-\text{Alk}$ ,  $-\text{CHO}$ ,  $-\text{CONH}_2$ ,  $-\text{CONH}(\text{Alk})$ ,  
 $-\text{CON}(\text{Alk})_2$ ,  $-\text{SO}-\text{Alk}$ ,  $-\text{SO}_2-\text{Alk}$ ,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{NH}-(\text{Alk})$  and  $-\text{SO}_2\text{N}(\text{Alk})_2$ ,

or A and X may together form a group represented by a formula



4. The pyrazole derivative or pharmaceutically acceptable salt thereof according to claim 3, wherein

n is 0, D is pyrazolyl which may have 1 to 3 substituents selected from  $-\text{Alk}$ ,  $-\text{halogeno-}$  lower alkyl,  $-\text{COOH}$  and  $-\text{COO}-\text{Alk}$ ,

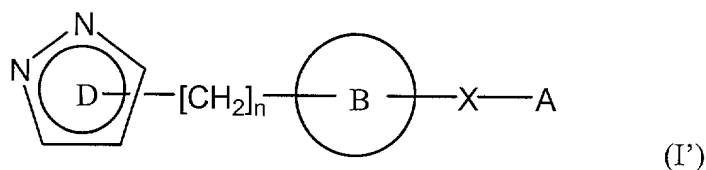
B is phenylene or a monocyclic, divalent heteroaromatic ring group selected from the class consisting of thiophene, furan, thiazole, pyridine and pyrimidine, which may be substituted with  $\text{Alk}$ ,

X is  $-\text{NH}-\text{CO}-$ ,  $-\text{N}(\text{OH})-\text{CO}-$ ,  $-\text{CO}-\text{NH}-$ ,  $-\text{CH}_2-\text{NH}-$  or  $-\text{CO}-\text{N}(\text{Alk})-$ , and

A is phenyl which may have one or more substituents selected from the group consisting of  $-\text{Alk}$ ,  $-\text{Hal}$ ,  $-\text{NH}_2$ ,  $-\text{N}(\text{Alk})_2$ ,  $-\text{NO}_2$ ,  $-\text{CN}$ ,  $-\text{OH}$ ,  $-\text{O}-\text{Alk}$  and  $-\text{COO}-\text{Alk}$ ; mono-, di- or tri-cyclic fused heteroaryl selected from the group consisting of thienyl, pyrrolyl, imidazolyl,

thiazolyl, oxazolyl, tetrazolyl, triazolyl, thiadiazolyl, pyridyl, pyrazinyl and isoquinolyl, which may be substituted with Alk; cycloalkyl; lower alkenyl which may be substituted with one or more Hal; or Alk.

10. A pharmaceutical composition which comprises a pyrazole derivative represented by the following general formula (I') or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier



wherein [(in the formula,) each symbol has the following meaning, [;]

D: pyrazolyl which may have 1 to 3 substituents selected from the group consisting of -Alk, -lower alkenyl, -lower alkynyl, -halogeno-lower alkyl, -Alk-cycloalkyl, -Alk-O-Alk, -cycloalkyl, -O-Alk, -COOH, -COO-Alk and -Hal,

n: 0 or 1,

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

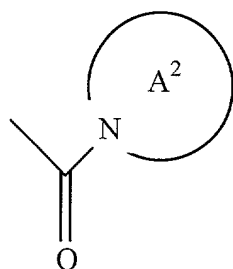
X:  $-\text{NR}^1-\text{CR}^2\text{R}^3-$ ,  $-\text{CR}^2\text{R}^3-\text{NR}^1-$ ,  $-\text{NR}^1-\text{SO}_2-$ ,  $-\text{SO}_2-\text{NR}^1-$  or  $-\text{CR}^4=\text{CR}^5-$ ,

$\text{R}^1$ : -H, -OH, -Alk, -O-Alk or -CO-Alk,

$\text{R}^2$  and  $\text{R}^3$ : the same or different from each other and each represents -H or -Alk, or  $\text{R}^2$  and  $\text{R}^3$  together form =O or =S,

$R^4$  and  $R^5$ : the same or different from each other and each represents  $-H$ ,  $-Hal$ ,  $-halogeno-lower\ alkyl$  or  $-Alk$ , and

A: benzene ring which may have one or more substituents; mono-, di- or tri-cyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may have one or more substituents; or  $Alk$  which may have one or more substituents, or A and X may together form a group represented by a formula



[()wherein  $A^2$  is a nitrogen-containing hetero ring selected from the group consisting of 1-pyrrolidinyl, pyrazolidinyl, piperidino, piperazinyl, morpholino, 3,4-dihydro-2H-1,4-benzoxazin-4-yl and indoliny, wherein said hetero ring may have one or more substituents[]], with the proviso that

(1) when n is 1, D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least [leaest] one trifluoromethyl group, and

(2) when D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl, n is 0, B is 1,4-phenylene and X is NHCO, A is a group other than 4-methyl-1,2,3-thiadiazol-5-yl []].

PRELIMINARY AMENDMENT  
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11. The pharmaceutical composition according to claim 10, which is a calcium release-activated [dependent] calcium channel inhibitor.

13. The pharmaceutical composition according to claim 12, which is a preventive or therapeutic agent for an allergic, inflammatory or autoimmune disease [diseases].

14. The pharmaceutical composition according to claim 13, which is a preventive or therapeutic agent for bronchial asthma [or rheumatoid arthritis].

15. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein D is pyrazolyl substituted with at least one trifluoromethyl group.

16. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein D is 1H-pyrazol-5-yl substituted with at least one trifluoromethyl group or 1H-pyrazol-1-yl substituted with at least one trifluoromethyl group.

17. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein X is -NH-CO- or -CO-NH-.

18. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein D is 1-methyl-3-trifluoromethyl-1H-pyrazol-5-yl and A is phenyl which may be substituted with Hal.

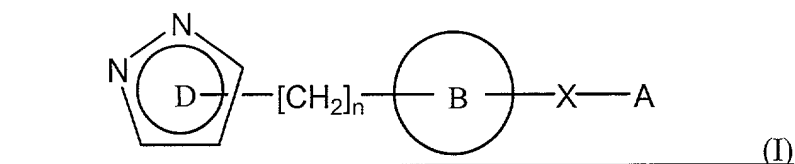
19. The pharmaceutical composition according to any one of claims 10 to 14, or 20, wherein D is 3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl and A is monocyclic heteroaryl selected from the group consisting of thiazolyl, thiadiazolyl, thienyl and pyridyl, which may be substituted with Alk.

**Claims 20-29 are added as new claims.**

**IN THE ABSTRACT OF DISCLOSURE:**

**The abstract is changed as follows:**

The present invention is directed to drugs, in particular, pyrazole derivatives represented by the following general formula (I)

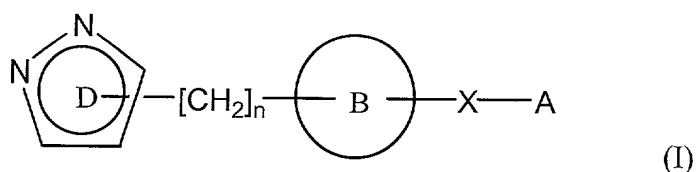


which have a calcium release-activated calcium channel inhibitory effect and medicinal compositions, in particular, calcium release-activated calcium channel inhibitors containing the above compounds as the active ingredient, wherein each substituent is defined in the specification.

The present invention also relates to a pharmaceutical composition containing an effective amount of the compound of formula (I) and a pharmaceutically effective carrier.

The present invention further relates to methods of treatment of diseases associated with calcium release-activated calcium channels, diseases associated with IL-2 production, and methods of treatment of allergic, inflammatory or auto-immune diseases.

[Drugs, in particular, pyrazole derivatives represented by the following general formula (I) which have a calcium release- dependent calcium channel inhibitory effect and medicinal compositions, in particular, calcium release- dependent calcium channel inhibitors containing the above compounds as the active ingredient,



(in the formula, each symbol has the following meaning:

B: phenylene, a nitrogen-containing, divalent, saturated ring group, or a monocyclic, divalent heteroaromatic ring group which may be substituted with Alk,

X:  $-\text{NR}^1-\text{CR}^2\text{R}^3-$ ,  $-\text{CR}^2\text{R}^3-\text{NR}^1-$ ,  $-\text{NR}^1-\text{SO}_2-$ ,  $-\text{SO}_2-\text{NR}^1-$  or  $-\text{CR}^4=\text{CR}^5-$ ,

A: benzene ring which may have one or more substituents; mono-, di- or tricyclic fused heteroaryl which may have one or more substituents; cycloalkyl which may have one or more substituents; a nitrogen-containing, saturated ring group which may have one or more substituents; lower alkenyl which may have one or more substituents; lower alkynyl which may have one or more substituents; or Alk which may have one or more substituents).]